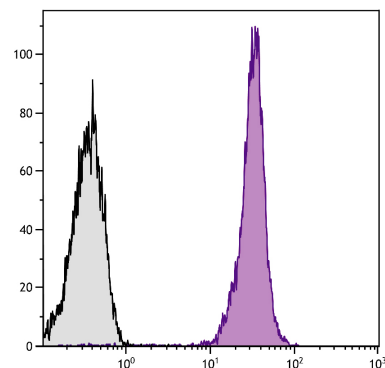




Mouse Anti-Mouse CD45.2

Cat. No.	Format	Size
1800-01	Purified (UNLB)	0.5 mg
1800-02	Fluorescein (FITC)	0.5 mg
1800-08	Biotin (BIOT)	0.5 mg
1800-09	R-phycoerythrin (PE)	0.1 mg
1800-11	Allophycocyanin (APC)	0.1 mg
1800-13	Spectral Red [®] (SPRD)	0.1 mg
1800-15	Cyanine 5 (CY5)	0.1 mg
1800-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	0.1 mg
1800-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1800-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	0.1 mg
1800-26	Pacific Blue [™] (PACBLU)	0.1 mg
1800-27	Alexa Fluor [®] 700 (AF700)	0.1 mg
1800-30	Alexa Fluor [®] 488 (AF488)	0.1 mg
1800-31	Alexa Fluor [®] 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Mouse Anti-Mouse CD45.2-PACBLU (SB Cat. No. 1800-26).

Overview

Clone	104
Isotype	Mouse (SJL) IgG _{2a} κ
Immunogen	B10.S mouse thymocytes and splenocytes
Specificity	Mouse CD45.2; Mr 180-240 kDa
Alternate Name(s)	Ly-5.2, LCA, SJL, T200

Description

The CD45 antigen is an essential regulator of leukocyte activation and development and is now known to be a protein tyrosine phosphatase, e.g., CD45 is able to dephosphorylate the Src family of protein kinases. This activity is known to be required for signal transduction induced by T and B cell antigen receptor engagement, cytokine signaling, and Fc receptor stimulation. The functional state of CD45 also has a pronounced effect on lymphocyte development. CD45 exists in multiple forms, such as the restricted variants (CD45R; see companion products 1660, 1665, 1675, 1685 and 1820) and as allelic forms CD45.1 (Ly-5.1) and CD45.2 (Ly-5.2). The specificity of antibodies to CD45.1 and CD45.2 has been exploited in studies where resolution of donor and recipient cells is essential, such as in gene therapy or bone marrow transplantation. The monoclonal antibody 104 recognizes CD45 (leukocyte common antigen) on all leukocytes of mouse strains expressing the CD45.2 allotype (e.g., A, AKR, BALB/c, CBA/Ca, CBA/J, C3H/He, C57BL, C57BR, C57L, C58, DBA/1, DBA/2, NZB, SWR, 129).

Applications

FC – Quality tested ²⁻⁷
 IHC-FS – Reported in literature ^{2,3}

Working Dilutions

Flow Cytometry	FITC, BIOT, and AF488 conjugates	≤ 1 μg/10 ⁶ cells
	PE, APC, SPRD, CY5, PE/CY5.5, PE/CY7, APC/CY5.5, AF647, AF700, and PACBLU conjugates	≤ 0.3 μg/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL		

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

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Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA Mailing Address: P.O. Box 26221 • Birmingham, AL 35260 • USA

Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • Fax: 205.945.8768

Email: info@southernbiotech.com • Website: www.southernbiotech.com

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red[®] (SPRD), R-phycoerythrin-Cyanine 5.5 (PE/CY5.5), R-phycoerythrin-Cyanine 7 (PE/CY7), and allophycocyanin-Cyanine 5.5 (APC/CY5.5) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The Alexa Fluor[®] 488 (AF488), Alexa Fluor[®] 647 (AF647), Alexa Fluor[®] 700 (AF700), and Pacific Blue[™] (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

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Spectral Red[®] is a PE/CY5 tandem conjugate.

Cy[®] is a registered trademark of GE Healthcare.

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